

FIG. 1

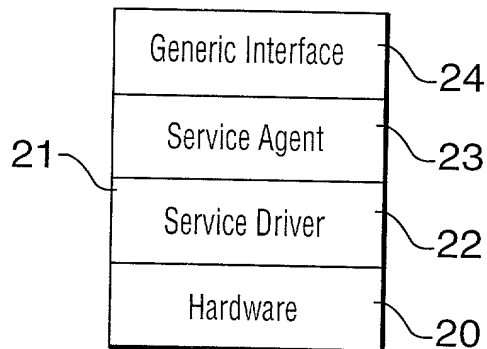


FIG. 2

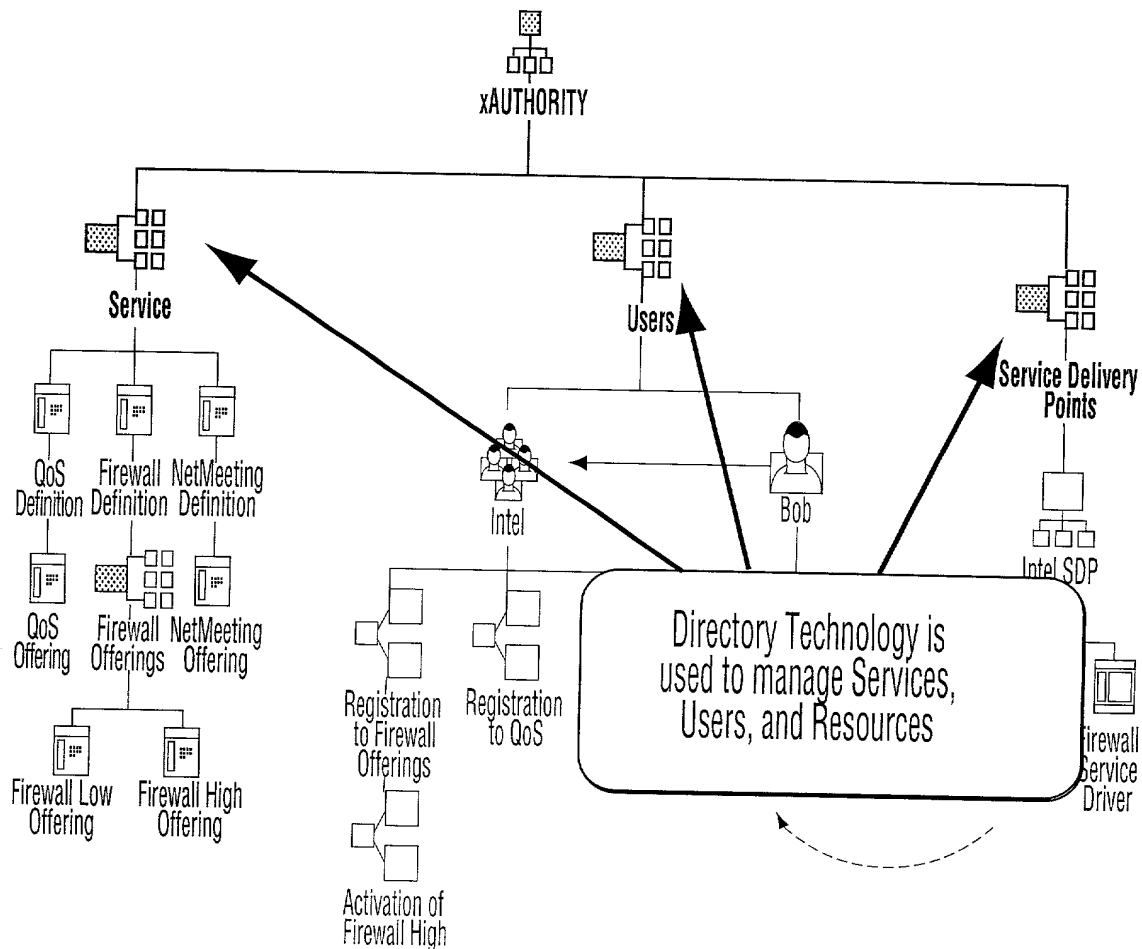


FIG. 3

### XML Document: Configuration (1)

XML

```
<configuration:document xmns:configuration="http://www.atreus-systems.com/TR/WD-service">
  <rule priority=0 direction="input" default="accept" id="setup(1)">
  <rule priority=0 direction="forward" default="deny" id="setup(1)">
  <rule priority=0 direction="output" default="accept" masquerade="false" id="activation(1)">
  <rule priority=1 direction="forward" s="64.154.202.227/32" d="0.0.0.0/0" port="any" id="activation(1)">
</configuration:document>
```

FIG. 4

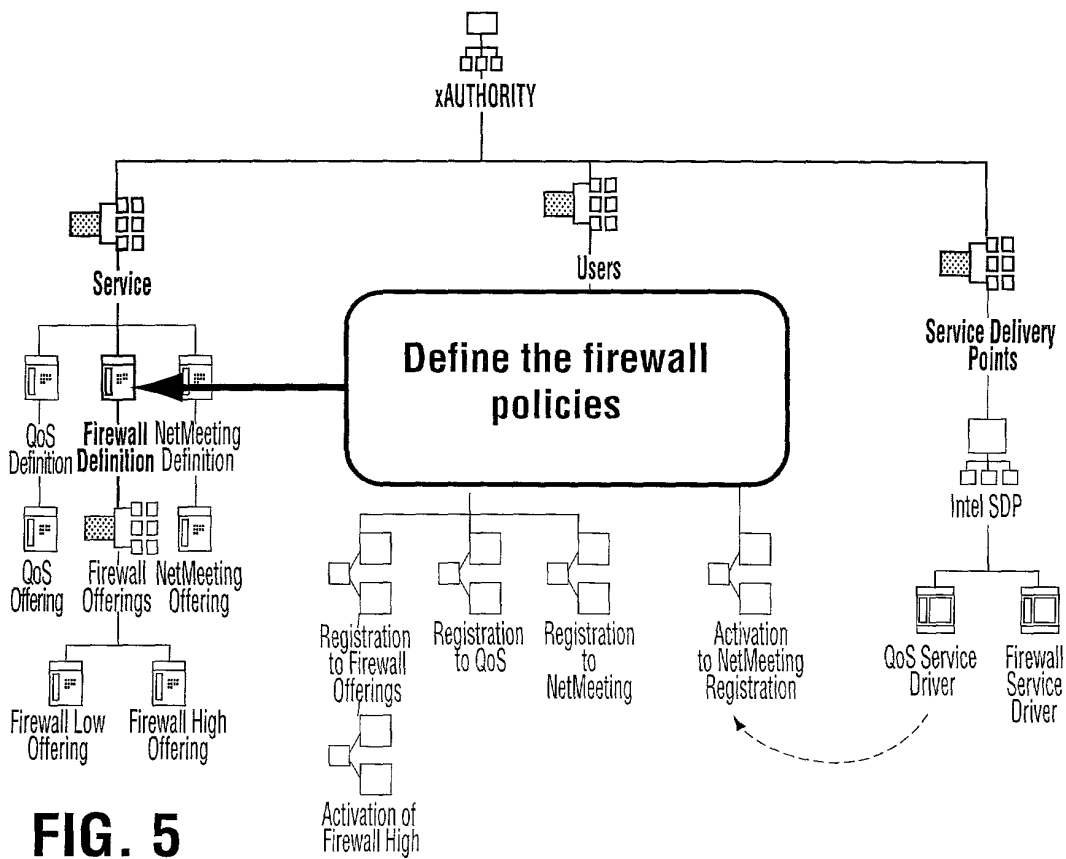


FIG. 5

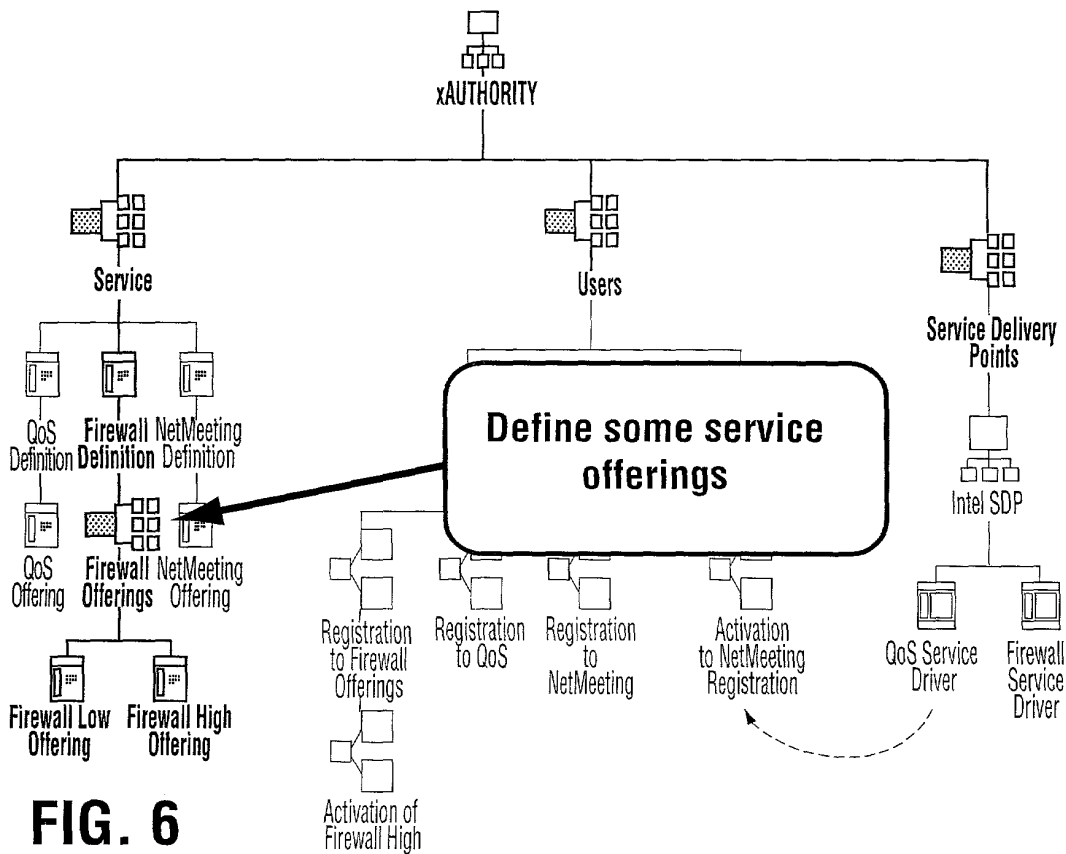


FIG. 6

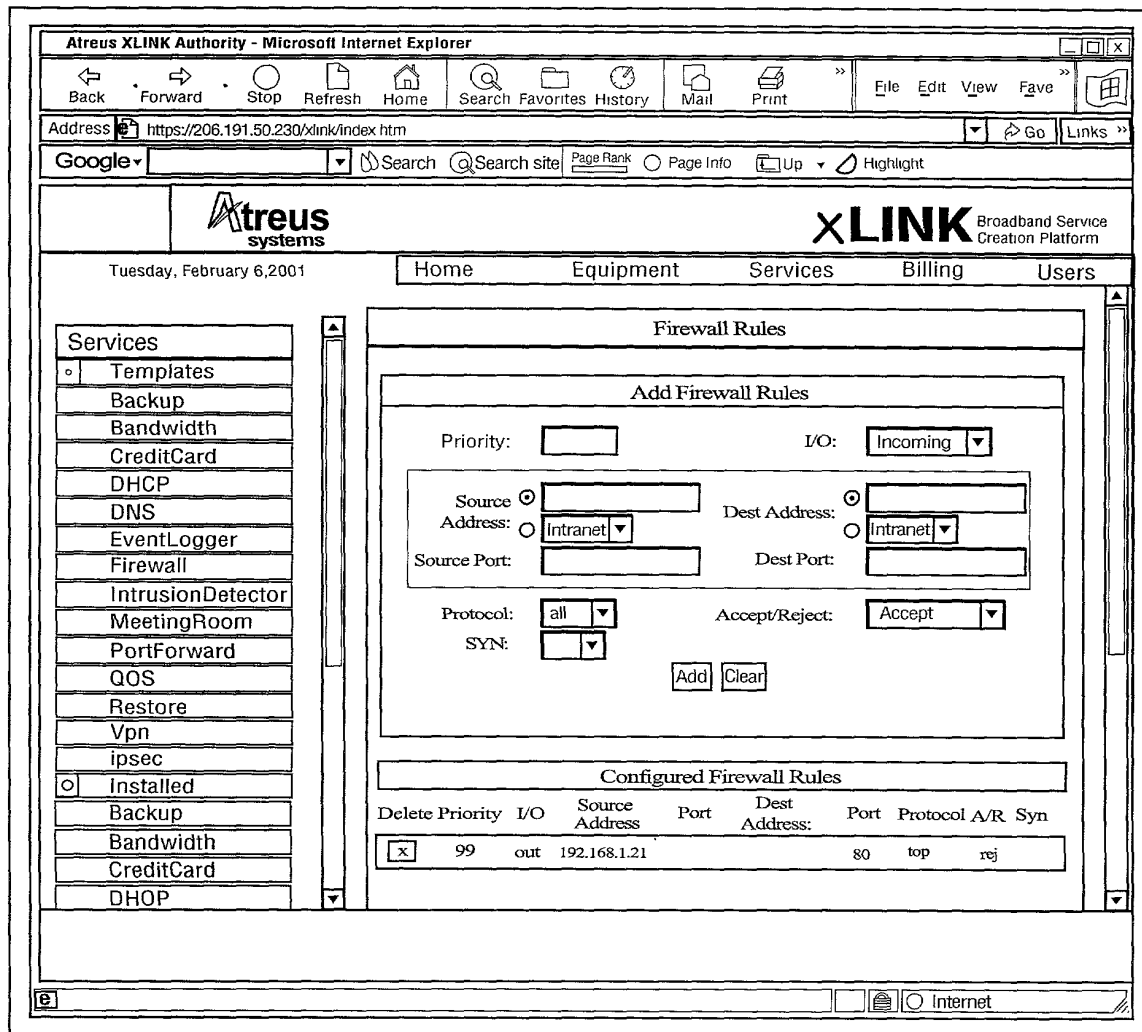


FIG.7

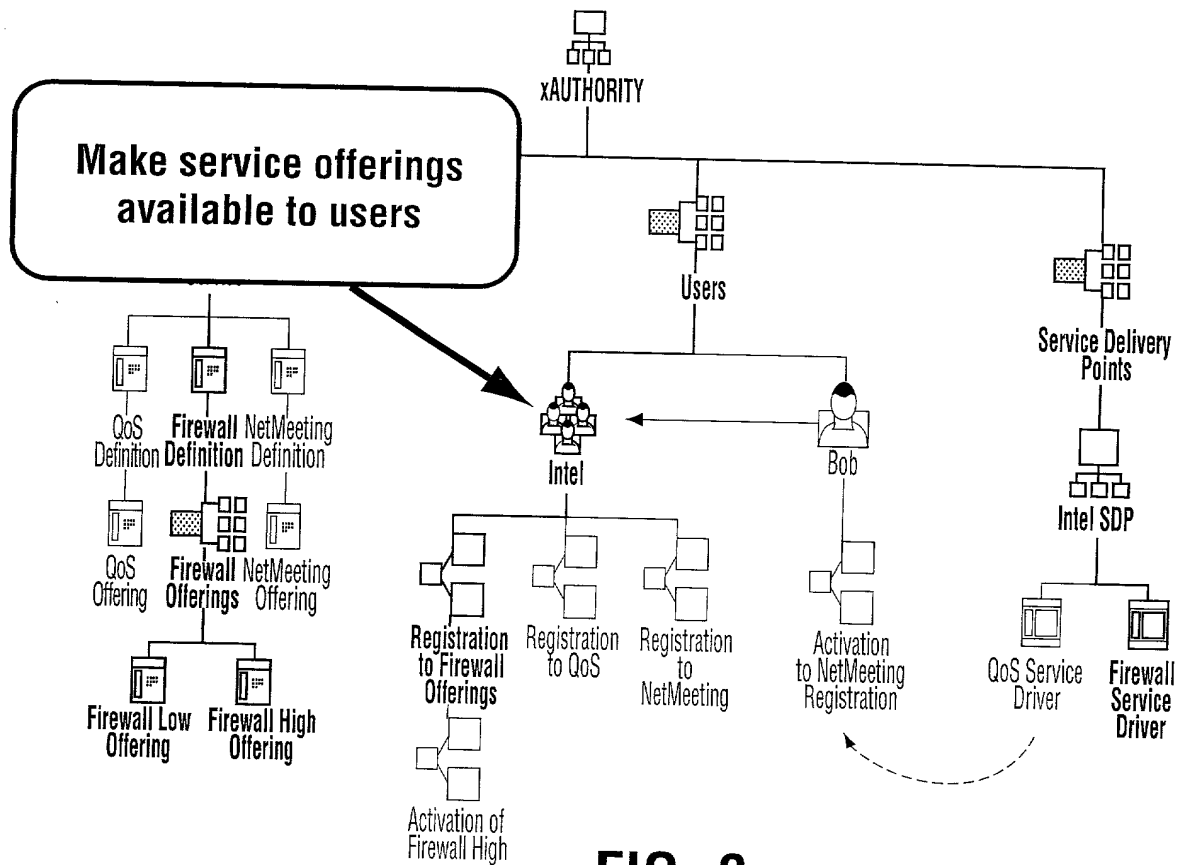


FIG. 8

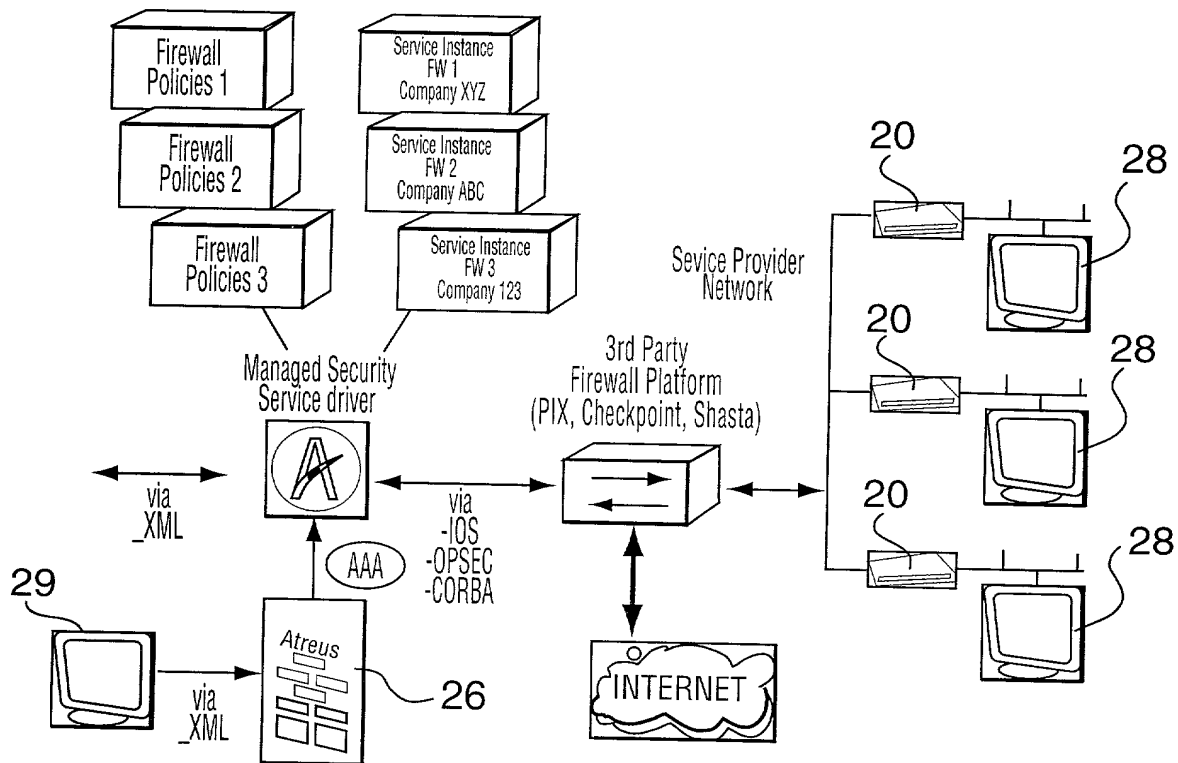


FIG. 9

## XML Document: Registration (1)

XML

```
<registration:document xmlns:registration="http://www.atreus-systems.com/TR/WD-service">
  <activation:document xmlns:activation="http://www.atreus-systems.com/TR/WD-service">
    <registration:variable name="address" from="portal">
    <registration:variable name="user" from="portal">
    <registration:variable name="firewall" from="LDAP">
      <rule scope="$user" name="firewall" find="association">
    </registration:variable >
    <registration:variable name="qos" from="LDAP">
      <rule scope="$user" name="qos" find="association">
    </registration:variable >
    <registration:policy name="$firewall" method="activate" id="$self" >
    <rule priority=1 direction="forward" s="$subscriber/32" d="0.0.0.0" port="any....">
    </registration:policy >
    <registration:policy name="Sqos" method="activate" id="$self">
      <rule address="$subscriber" qos="gold">
    </registration:policy >
    <registration:policy name="cn=billing,..." method="journal" id="$self" >
      <rule customer="$user" service="NetMeeting">
    </registration:policy >
    </activation:document >
  </registration:document >
```

FIG. 10

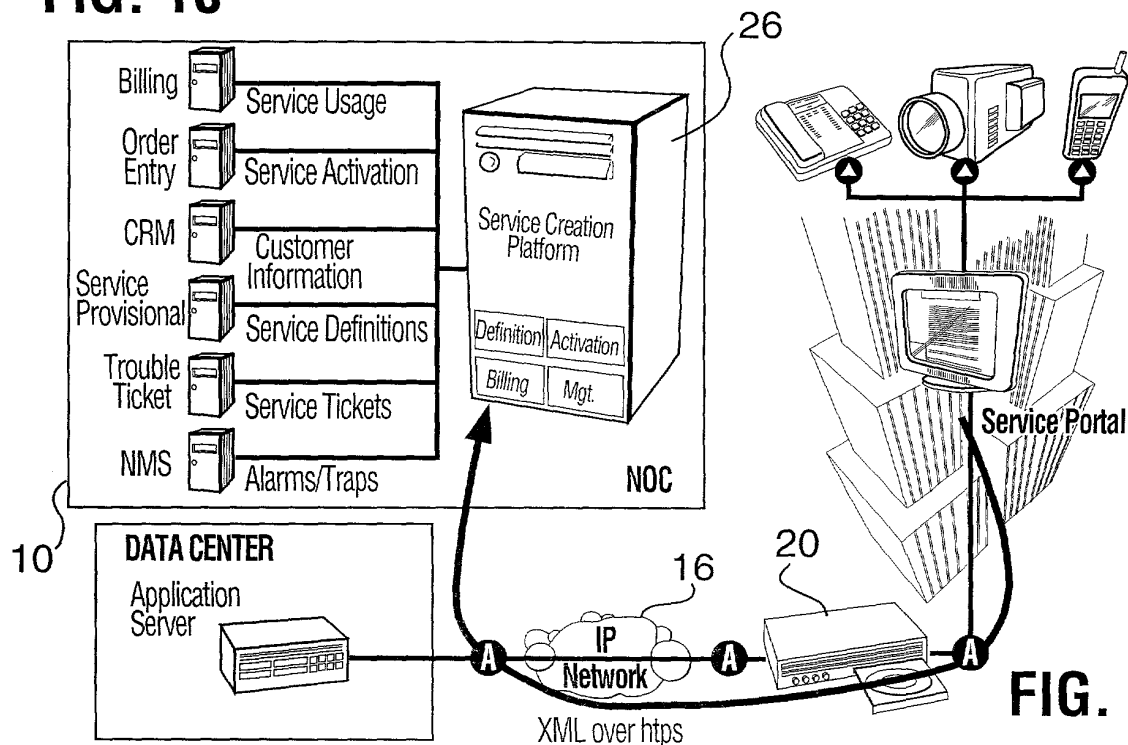
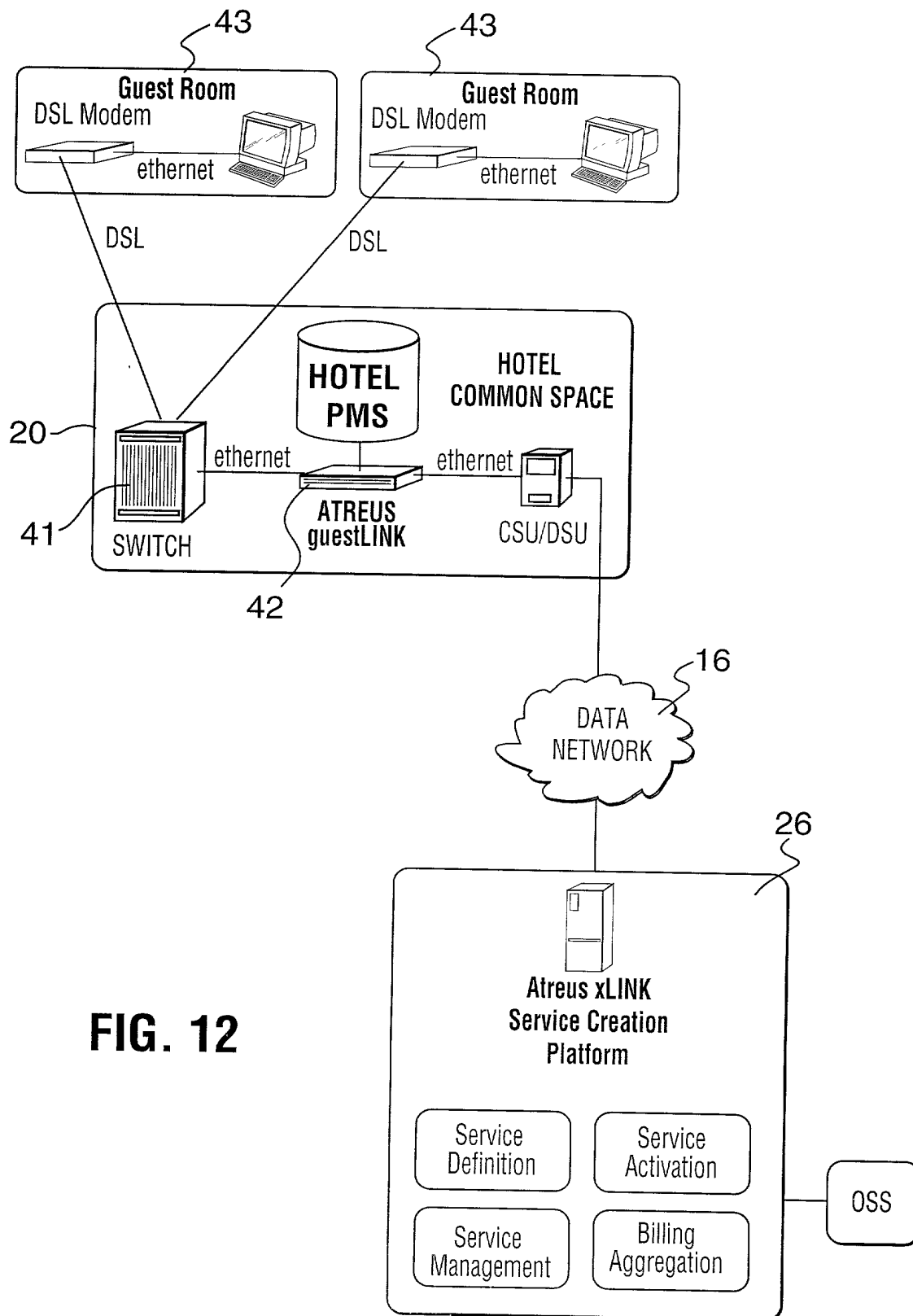
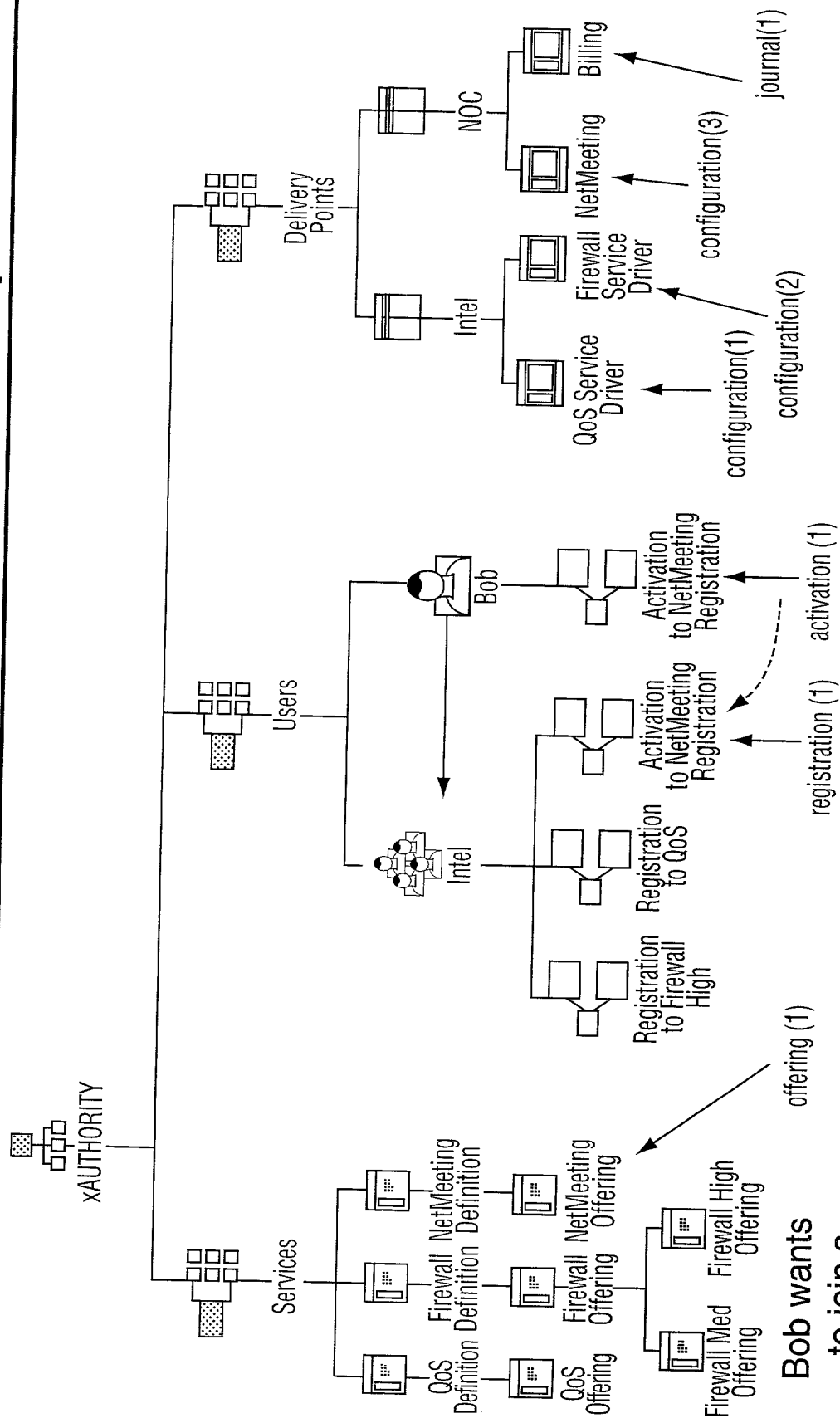


FIG. 11



# xLINK Directory Tree: NetMeeting Example



Bob wants  
to join a  
NetMeeting

FIG. 13



# xLINK Directory Tree: Services

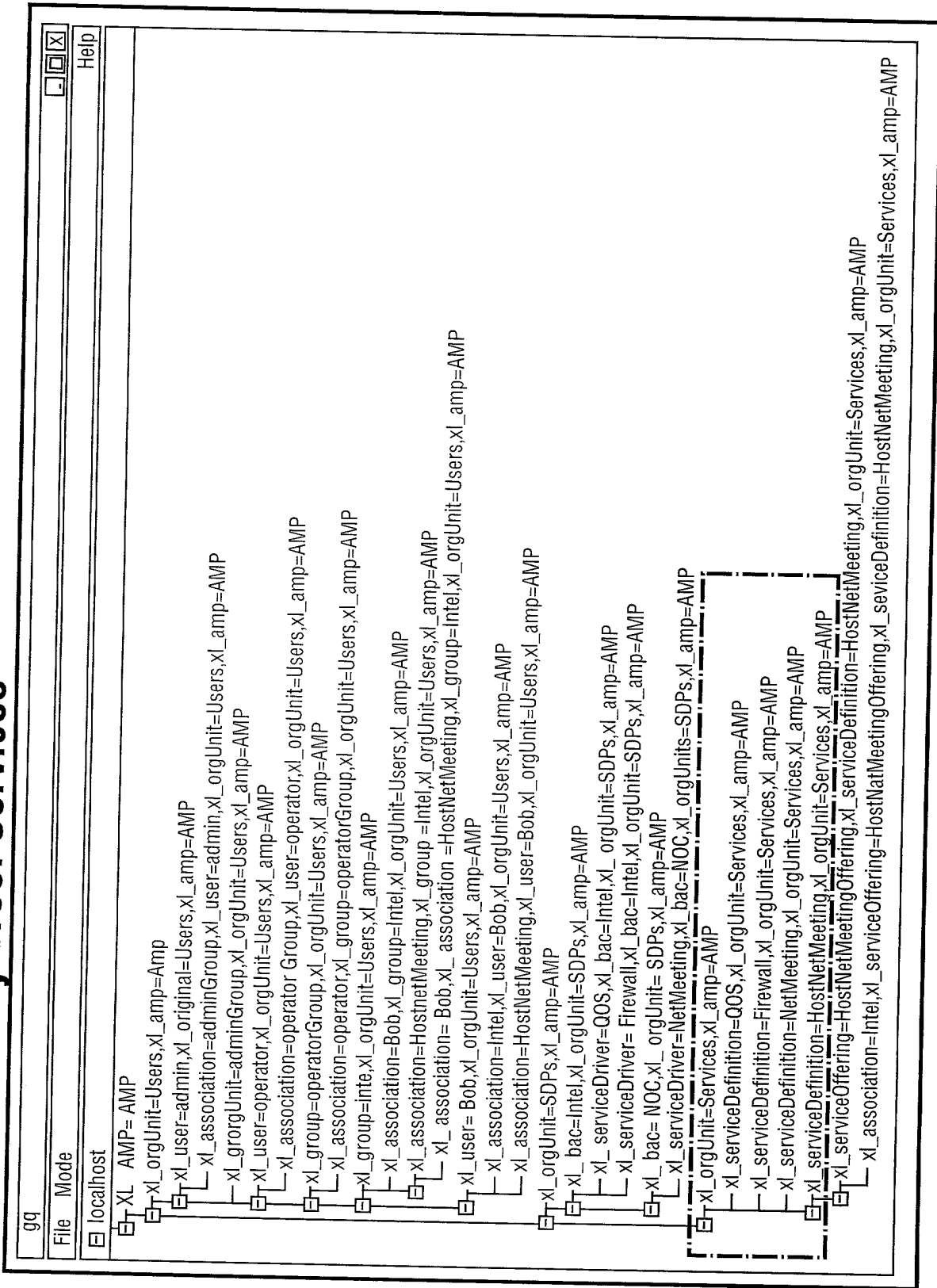


FIG. 14



# xLINK Directory Tree: Delivery Points

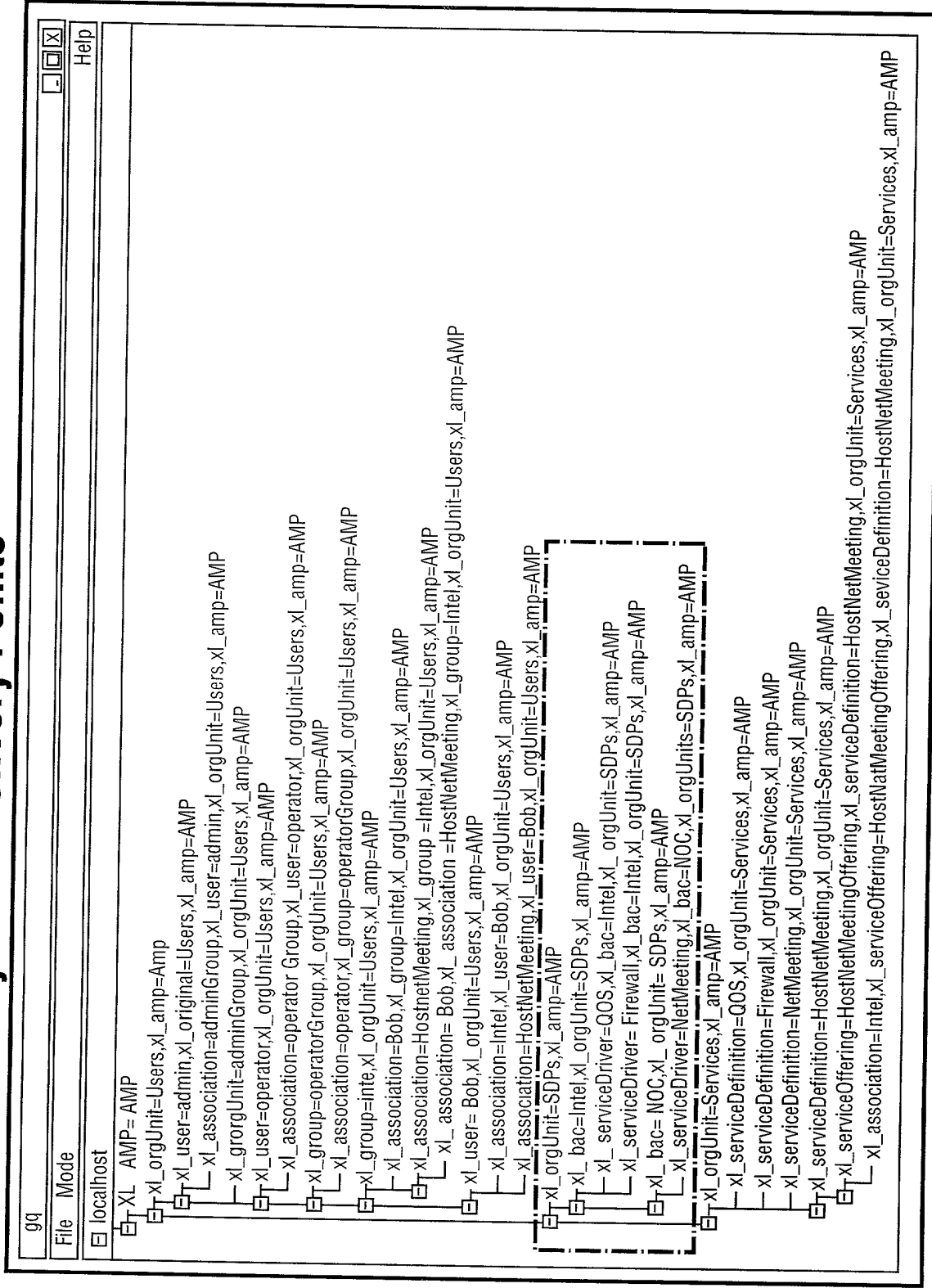
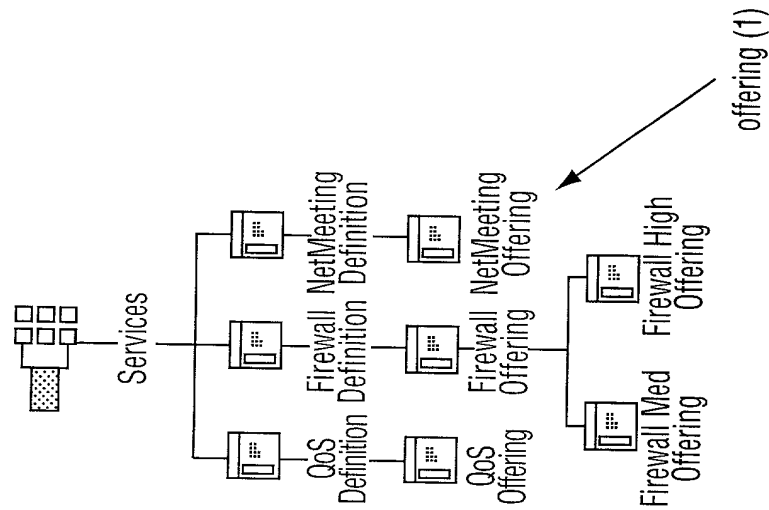


FIG. 16

## Define Service Offering



### XML Document: Offering (1)

```

<offering:document xmlns:offering="http://www.atreus-systems.com/TR/WD-service">
<registration:document xmlns:registration="http://www.atreus-systems.com/TR/WD-service">
<activation:document xmlns:activation="http://www.atreus-systems.com/TR/WD-service">
<registration:variable name="address" from="portal">
<registration:variable name="user" from="portal">
<registration:variable name="firewall" from="LDAP">
  <rule scope="$user" name="firewall" find="association">
</registration:variable>
<registration:variable name="qos" from="LDAP">
  <rule scope="$user" name="qos" find="association">
</registration:variable>
<registration:policy name="$firewall" method="activate" id="$self">
<rule priority=1 direction="forward" s="$subscriber/32" d="0.0.0.0" port="any....">
</registration:policy>
<registration:policy name="Sqos" method="activate" id="$self">
  <rule address="$subscriber" qos="gold">
</registration:policy>
<registration:policy name="cn=billing,..." method="journal" id="$self">
  <rule customer="$user" service="NetMeeting">
</registration:policy>
</activation:document>
</offering:document>
  
```

**FIG. 17**

## Bob Activates the NetMeeting Service

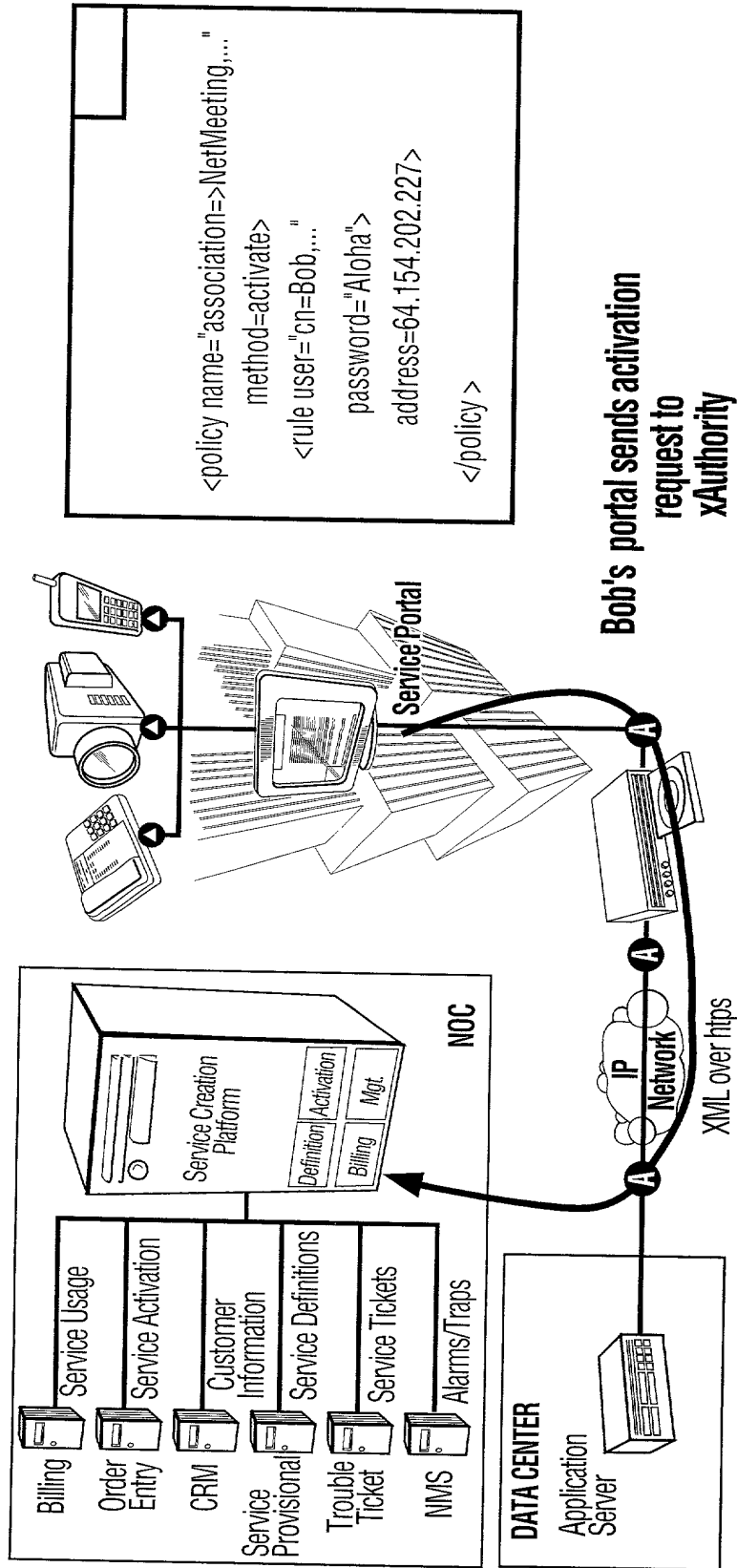
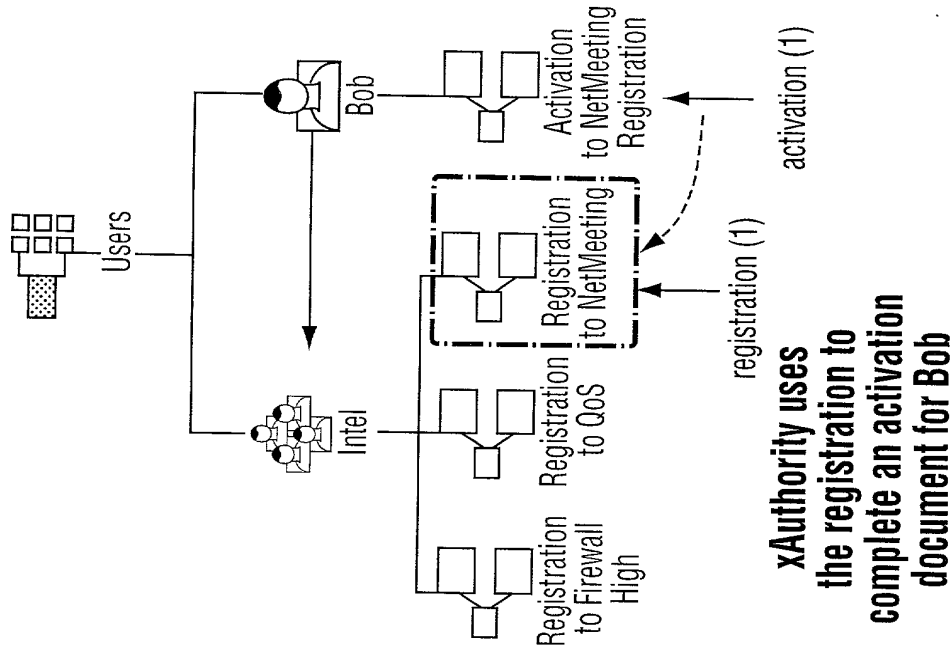


FIG. 18

## Activate NetMeeting Registration Policy



### XML Document: Registration (1)

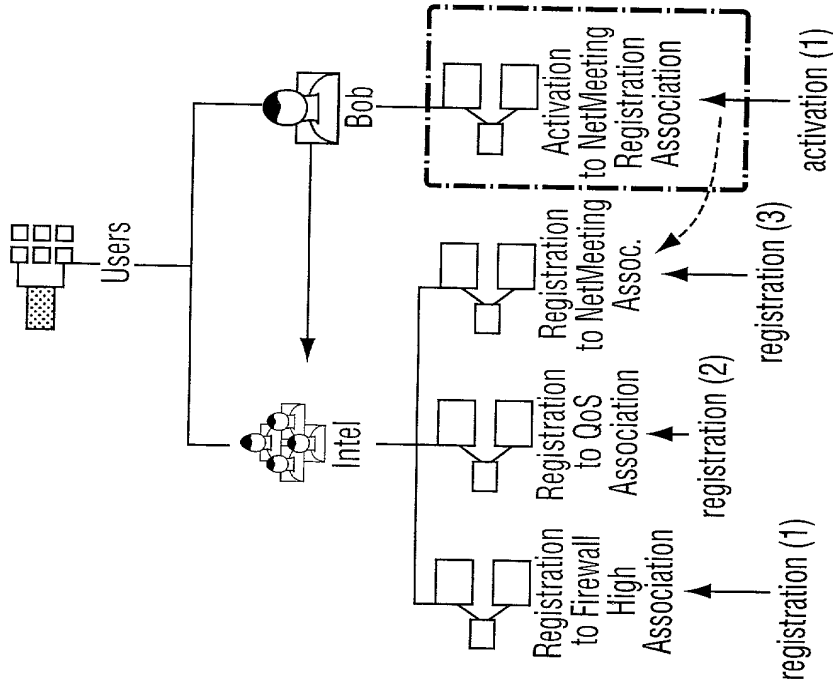
```

<registration:document xmlns:offering="http://www.atreus-systems.com/TR/WD-service">
  <activation:document xmlns:registration="http://www.atreus-systems.com/TR/WD-service">
    <registration:variable name="address" from="portal">
      <registration:variable name="user" from="portal">
        <registration:variable name="firewall" from="LDAP">
          <rule scope="$user" name="firewall" find="association">
            </registration:variable >
          <registration:variable name="qos" from="LDAP">
            <rule scope="$user" name="qos" find="association">
              </registration:variable >
            <registration:policy name="$firewall" method="activate" id="$self" >
              <rule priority=1 direction="forward" s="$subscriber/32" d="0.0.0.0" port="any....">
                </registration:policy >
              <registration:policy name="Sqos" method="activate" id="$self">
                <rule address="$subscriber" qos="gold">
                  </registration:policy >
                <registration:policy name="cn=billing,..." method="journal" id="$self" >
                  <rule customer="$user" service="NetMeeting">
                    </registration:policy >
                  <activation:document >
                    </registration:document >
  </activation:document >
</registration:document >

```

**FIG. 19**

## NetMeeting Activation Policy



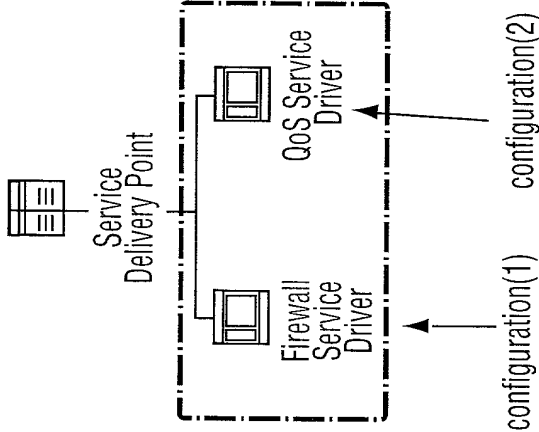
### XML Document: Activation (1)

```
<activation:document xmlns:activation="http://www.atreus-systems.com/TR/WD-service">
  <activation:policy dn="cn=Chicago,... " method="activate" id="activation(1)">
    <rule priority=1 direction="forward" s="64.154.202.227/32" d="0.0.0.0" port="any ....">
      </activation:policy >
    <activation:policy dn="cn=Chicago,... " method="activate" id="activation(1)">
      <rule address="64.154.202.227" qos="gold">
        </activation:policy >
    <activation:policy name="cn=billing,... " method="journal" id="activation(1)">
      <rule customer="dn=>cn=Bob,... " service="NetMeeting">
        </activation:policy >
    </activation:document >
```

**xAuthority keeps a record of Bobs activation policy**

**FIG. 20**

# Service Driver Configuration



## XML Document:Configuration (1)

```
<configuration:document xmlns:activation="http://www.atreus-systems.com/TR/WD-service">  
  <rule priority=0 direction="input" default="accept" id="setup(1)">  
    <rule priority=0 direction="forward" default="deny" id="setup(1)">  
      <rule priority=0 direction="output" default="accept" masquerade="false" id="setup(1)">  
        <rule priority=1 direction="forward" s="64.154.202.227/32" d="0.0.0.0/0" port="any" id="activation(1)">  
      </configuration:document >
```

## XML Document:Configuration (2)

```
<configuration:document xmlns:activation="http://www.atreus-systems.com/TR/WD-service">  
  <service qos="gold" cir="1500000" burst="20" id="setup(1)">  
    <service qos="silver" cir="1000000" burst="20" id="setup(1)">  
      <service qos="bronze" cir="500000" burst="20" id="setup(1)">  
        <rule address="64.154.202.227" qos="gold" id="activation(1)">  
      </configuration:document >
```

xAuthority maintains a complete service driver activation policy

FIG. 21



[illegible]

**FIG. 22**